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JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **02148645 A**(43) Date of publication of application: **07.06.90**(51) Int. Cl **H01J 11/00**(21) Application number: **63304509**(22) Date of filing: **30.11.88**(71) Applicant: **FUJITSU LTD**(72) Inventor: **NANTO TOSHIYUKI
SHINODA TSUTAE****(54) GAS DISCHARGE PANEL****(57) Abstract:**

PURPOSE: To improve the luminous efficiency and brightness and enable a clear color luminescent display by directly observing the luminescence by the excitation of a phosphor film through each pair of discharge keeping electrodes, an insulating layer, and a glass base each of which is transparent on the opposite side without passing through the phosphor film.

CONSTITUTION: An electrode support base 11 is formed of a transparent glass base, and mutually adjacent discharge keeping electrodes of each pair of transparent discharge keeping electrodes on said base, for example, between 321 and 312, are shortcircuited by a thick metal material layer 33 such as gold Au. When a voltage pulse is applied to the electrode drawing metal material layer 33, the discharge simultaneously occurs also in a read discharge cell related to the adjacent non-selected keeping discharge cell, but this read discharge is continued only in the selected keeping discharge cell to which the voltage pulse is applied. By the discharge of the selected keeping discharge cell, a phosphor 23 provided on a cover base 21 generates an excited color display light and directly exhibits a color display on the display observing surface of the transparent electrode support base 11. Hence, an observer can visually recognize a highly bright and clear color display.

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